

58.11  
S  
43  
.E22  
no.829

Please  
handle this volume  
with care.

University of Connecticut  
Libraries, Storrs



3 9153 01143703 7

GOVERNMENT PUBLICATIONS  
RECEIVED  
JAN 20 1986  
UNIVERSITY LIBRARY  
UNIVERSITY OF CONNECTICUT

CONN  
S  
43  
.E22  
no. 829

# Inspection of Commercial Fertilizers — 1985

By Lester Hankin

Digitized by the Internet Archive  
in 2011 with funding from  
LYRASIS members and Sloan Foundation

<http://www.archive.org/details/inspectionsofcom829hank>

## INSPECTION OF COMMERCIAL FERTILIZERS--1985

by Lester Hankin

During 1985, 316 official samples of fertilizer were collected by inspectors of the Connecticut Department of Agriculture and examined for authenticity of guaranteed analysis that is stated on the label and compliance with State Regulations. Other fertilizer samples were tested for farmers and Station research but are not included in this Bulletin. Although all guaranteed analyses are examined, only the results for the major plant nutrients of nitrogen, phosphoric acid, and potash are presented in this Bulletin.

Table 1 shows individual samples from 59 manufacturers. The numbers preceding the brand name are the guaranteed analyses. For example, 10-10-10, indicates the guaranteed percentage for nitrogen (N), phosphoric acid (P2O5), and potash (K2O), in that order. The actual content is then shown, with deficiencies indicated by a dash following the amount found. Table 2 summarizes for each manufacturer the number of guarantees examined for each plant nutrient, the percentage of the samples not meeting their guarantee, and the average percentage of guarantee found. Table 3 shows the tonnage of the various grades of mixed fertilizer sold in Connecticut. Only grades prepared by at least three manufacturers are shown; other grades are placed in the miscellaneous category. The tonnage of fertilizer material and mixed fertilizer sold in Connecticut is shown in Table 4.

Two types of variability affect fertilizer analysis and must be considered in judging deficiencies. The first is the variability among different batches of the same grade from a manufacturer. This variability can be noted in Table 1 by examining the analyses of the same grade from the same manufacturer. The second type of variability is between duplicate analyses of the same sample. The variability among duplicate analyses is shown in the statement: the mean difference between duplicates for nitrogen and phosphoric acid is about two-tenths percent and for potash about three-tenths percent.

Fertilizer samples are deemed deficient in any nutrient if the analysis is below the guarantee by more than the values established by the Association of American Feed Control Officials. Overall, 311 guarantees for nitrogen were made and 7.7% were deficient, 300 guarantees for phosphoric acid and 8.7% were deficient, and 299 guarantees for potash and 13.7% were deficient. In 1985 the percentages of deficiencies for nitrogen and phosphoric acid are lower than in 1984. For potash, the percentage of deficiencies is higher in 1985 than in 1984.

Analyses were performed by H. Kocaba, M. Pyles, M.A. Illig, E. Hickson, and J. Smart. Samples were collected by J. Chapman, J. Dippel, D. Nisely, and A. VanDyke under the direction of K. Veit. Fertilizer laws are administered by the Commissioner of Agriculture.

Lester Hankin  
Chief, Analytical Chemistry

Table 1. Analysis of Individual Samples of Commercial Fertilizers.

| Manufacturer, guarantee and brand |    |    |                                   | Nutrients found, % |       |       | Manufacturer, guarantee and brand |  |  |      | Nutrients found, % |      |  |
|-----------------------------------|----|----|-----------------------------------|--------------------|-------|-------|-----------------------------------|--|--|------|--------------------|------|--|
|                                   |    |    |                                   | N                  | P205  | K20   |                                   |  |  | N    | P205               | K20  |  |
| A.H. Hoffman, Inc.                |    |    |                                   |                    |       |       |                                   |  |  |      |                    |      |  |
| 05                                | 09 | 06 | Hoffman Rose Food                 | 6.5                | 9.7   | 7.3   |                                   |  |  | 5.6  | 1.7                | 2.0  |  |
| Agino, Inc.                       |    |    |                                   |                    |       |       |                                   |  |  |      |                    |      |  |
| 37                                |    |    | Sulfur Coated Urea                | 37.7               |       |       |                                   |  |  | 5.3  | 1.5                | 1.8  |  |
|                                   |    |    |                                   |                    |       |       |                                   |  |  | 5.4  | 1.5                | 2.0  |  |
| Agri-Turf, Inc.                   |    |    |                                   |                    |       |       |                                   |  |  |      |                    |      |  |
| 25                                | 05 | 10 | Agri-Turf                         | 26.3               | 7.9   | 8.7-  |                                   |  |  | 2.5  | 1.9                | 1.0  |  |
| Agrico Chemical Corp.             |    |    |                                   |                    |       |       |                                   |  |  |      |                    |      |  |
| 15                                | 30 |    | Agrico Fertilizer                 |                    | 24.8  | 25.1- |                                   |  |  | 5.2  | 6.8-               | 5.5  |  |
|                                   |    |    |                                   |                    |       |       |                                   |  |  | 5.7  | 7.1-               | 4.1- |  |
| Agway, Inc.                       |    |    |                                   |                    |       |       |                                   |  |  |      |                    |      |  |
| 12                                | 39 |    | Agway Blend                       |                    | 17.4  | 38.7  |                                   |  |  | 5.6  | 12.1               | 10.5 |  |
| 04                                | 12 | 04 | Agway Bulb Bloomer                | 4.0                | 18.7  | 6.0   |                                   |  |  | 13.0 | 6.3                | 4.1  |  |
| 07                                | 16 | 32 | Agway Blend                       | 9.1                | 20.3  | 29.0- |                                   |  |  | 6.3- | 4.9-               | 3.3- |  |
| 10                                | 06 | 04 | Agway Turf Food Special           | 13.2               | 6.4   | 5.6   |                                   |  |  | 10.8 | 6.1                | 4.7  |  |
| 10                                | 10 | 10 | Agway Nutri-Bond                  | 10.2               | 10.0  | 11.6  |                                   |  |  | 9.8  | 4.7-               | 3.7  |  |
| 10                                | 15 | 15 | Agway Nutri-Bond Taterbest        | 10.5               | 17.0  | 13.4- |                                   |  |  | 16.6 | 8.4                | 5.4- |  |
| 10                                | 20 | 10 | Agway Corn Starter Nutri-Bond Amm | 10.6               | 23.8  | 8.6-  |                                   |  |  | 11.3 | 10.4               | 10.1 |  |
| 15                                | 15 | 15 | Agway Nutri Bond                  | 14.7               | 16.8  | 14.7  |                                   |  |  | 21.5 | 1.6                | 3.1- |  |
| 16                                | 32 | 16 | Agway Start & Gro 100% Water Sol  | 13.4-              | 33.1  | 14.3- |                                   |  |  | 21.2 | 10.1               | 10.9 |  |
| 18                                | 18 | 18 | Agway Blend                       | 23.5               | 20.4  | 16.1- |                                   |  |  | 22.8 | 11.2               | 9.9  |  |
| 18                                | 18 | 18 | Agway Blend                       | 18.9               | 14.7  | 25.5  |                                   |  |  | 22.7 | 12.2               | 11.7 |  |
| 20                                | 14 | 21 | Agway Blend                       | 20.3               | 12.6- | 32.4  |                                   |  |  | 22.0 | 5.3-               | 6.1- |  |
| 20                                | 20 | 20 | Agway Sol-U-Green                 | 13.1-              | 21.6  | 22.2  |                                   |  |  | 28.7 | 5.4                | 6.0- |  |
| 21                                | 10 | 21 | Agway Blend                       | 20.5               | 16.0  | 34.5  |                                   |  |  | 26.3 | 6.4                | 9.3  |  |
| 21                                | 10 | 21 | Agway Blend                       | 22.7               | 13.1  | 23.3  |                                   |  |  | 32.4 |                    |      |  |
| 22                                | 06 | 08 | Agway Greenlawn Fert              | 23.6               | 7.5   | 4.9-  |                                   |  |  | 36.8 | 9.9                | 15.9 |  |
| 22                                | 06 | 08 | Agway Greenlawn Fert              | 23.4               | 6.7   | 7.1-  |                                   |  |  | 5.1  | 4.4                | 6.4  |  |
| 22                                | 12 | 18 | Agway Blend                       | 23.1               | 11.6  | 19.3  |                                   |  |  | 5.2  | 5.8                | 6.1  |  |
| 22                                | 13 | 18 | Agway Blend                       | 22.6               | 10.5- | 27.9  |                                   |  |  | 4.2  | 7.2                | 5.4  |  |
| 22                                | 13 | 18 | Agway Blend                       | 21.3               | 10.3- | 25.7  |                                   |  |  | 5.1  | 7.2-               | 3.7  |  |
| 22                                | 14 | 18 | Agway Blend                       | 22.0               | 13.3  | 18.9  |                                   |  |  | 4.7  | 5.9                | 5.5  |  |
| 22                                | 14 | 18 | Agway Blend                       | 22.8               | 12.8- | 21.5  |                                   |  |  | 4.8  | 4.8-               | 4.8  |  |
| 23                                | 12 | 18 | Agway Blend                       | 23.2               | 18.7  | 22.6  |                                   |  |  | 5.2  | 6.4                | 4.2  |  |
| 23                                | 13 | 17 | Agway Blend                       | 23.5               | 17.8  | 15.1- |                                   |  |  | 4.9  | 7.1                | 4.2  |  |
| 24                                | 05 | 22 | Agway Blend                       | 23.2               | 6.3   | 31.0  |                                   |  |  | 5.3  | 4.7-               | 4.6  |  |
| 25                                | 05 | 20 | Agway Blend                       | 20.3-              | 5.4   | 30.7  |                                   |  |  | 4.8  | 6.7                | 4.7  |  |
| 27                                | 11 | 14 | Agway Blend                       | 24.5-              | 14.6  | 18.5  |                                   |  |  | 4.0- | 5.6-               | 3.1  |  |
| 27                                | 23 |    | Agway Blend                       | 26.8               | 26.5  |       |                                   |  |  | 4.80 | 5.5                | 3.0  |  |
| Allied Corp.                      |    |    |                                   |                    |       |       |                                   |  |  |      |                    |      |  |
| 21                                |    |    | Sulf-N45                          | 21.8               |       |       |                                   |  |  | 4.4  | 6.2                | 3.5  |  |
|                                   |    |    |                                   |                    |       |       |                                   |  |  | 5.7- | 6.7                | 6.7  |  |
| Carefree Garden Prod.             |    |    |                                   |                    |       |       |                                   |  |  |      |                    |      |  |
| 07                                | 40 | 06 | Mag Amp Indoor/Outdoor Plant Food |                    |       |       |                                   |  |  | 7.2  | 46.0               | 6.8  |  |
| Charles C. Hart Seed Co.          |    |    |                                   |                    |       |       |                                   |  |  |      |                    |      |  |
| 10                                | 06 | 04 | Hart's Turf Food 50% Org Lawn Fd  |                    |       |       |                                   |  |  | 11.5 | 7.2                | 4.1  |  |
| 20                                | 12 | 08 | Hart's Pro Turf Food              |                    |       |       |                                   |  |  | 25.4 | 15.1               | 8.4  |  |
| Chevron Chem. Co.                 |    |    |                                   |                    |       |       |                                   |  |  |      |                    |      |  |
| 03                                | 10 | 03 | Ortho Vitamin B-1 Plant Starter   |                    |       |       |                                   |  |  | 2.5  | 11.0               | 3.3  |  |

| Manufacturer, guarantee and brand |         |                                   | Nutrients found, % |      |       | Manufacturer, guarantee and brand |   |      | Nutrients found, % |  |  |
|-----------------------------------|---------|-----------------------------------|--------------------|------|-------|-----------------------------------|---|------|--------------------|--|--|
|                                   | N       | P205                              | K20                |      |       |                                   | N | P205 | K20                |  |  |
| Giba-Geigy Corp.                  | 05 01   | Ortho Fish Emulsion Fert          | 5.6                | 1.4  | 1.8   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Ortho Houseplant Food             | 5.3                | 9.6  | 5.6   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Ortho Houseplant Food             | 5.5                | 10.6 | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Ortho Vegetable Garden Food       | 6.0                | 10.6 | 8.6-  |                                   |   |      |                    |  |  |
|                                   | 05 15   | Ortho Up-Start Root Stimulator    | 5.4                | 15.2 | 5.5   |                                   |   |      |                    |  |  |
|                                   | 05 15   | Ortho Up-Start                    | 5.0                | 14.7 | 5.0   |                                   |   |      |                    |  |  |
|                                   | 06 09   | Ortho Liq Afr Violet Food         | 6.4                | 9.4  | 5.1   |                                   |   |      |                    |  |  |
|                                   | 06 18   | Ortho Tomato & Vegetable Food     | 6.7                | 17.8 | 6.5   |                                   |   |      |                    |  |  |
|                                   | 08 12   | Ortho Rose & Flower Food          | 8.7                | 11.9 | 4.7   |                                   |   |      |                    |  |  |
|                                   | 10 08   | Ortho Fern & Ivy Food             | 11.3               | 8.4  | 7.9   |                                   |   |      |                    |  |  |
|                                   | 10 08   | Ortho Fern & Ivy Food             | 12.0               | 8.3  | 7.6   |                                   |   |      |                    |  |  |
|                                   | 10 08   | Ortho Evergreen & Azalea Food     | 11.1               | 7.1- | 8.9   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Ortho Gen Purp Plant Food         | 15.0               | 10.5 | 13.7  |                                   |   |      |                    |  |  |
|                                   | 12 06   | Ortho Ortho-Gro Liquid Plant Food | 13.1               | 5.3  | 6.1   |                                   |   |      |                    |  |  |
| Clinton Nursery Prod.             | 14 07   | Ortho Evergreen, Tree & Shrub Fd  | 14.8               | 9.0  | 9.0   |                                   |   |      |                    |  |  |
|                                   | 20 20   | Spectrum Earth Care               | 15.4-              | 19.6 | 20.1  |                                   |   |      |                    |  |  |
|                                   | 04 10   | New Era Flowering Plant           | 4.9                | 9.0- | 12.5  |                                   |   |      |                    |  |  |
|                                   | 05 01   | New Era Fish Emulsion             | 5.8                | 1.8  | 1.4   |                                   |   |      |                    |  |  |
|                                   | 05 12   | New Era Flowering Plant           | 5.5                | 13.0 | 10.2  |                                   |   |      |                    |  |  |
|                                   | 06 12   | New Era Solid Plant Food          | 7.8                | 12.9 | 8.9   |                                   |   |      |                    |  |  |
|                                   | 07 15   | New Era Plant Food                | 6.5                | 16.8 | 10.0  |                                   |   |      |                    |  |  |
|                                   | 08 08   | New Era Plant Food                | 8.5                | 7.4  | 9.6   |                                   |   |      |                    |  |  |
|                                   | 11 15   | New Era Plant Food Tablets        | 11.1               | 15.2 | 21.7  |                                   |   |      |                    |  |  |
|                                   | 12 06   | New Era Solid Plant Food          | 14.7               | 0.3- | 15.3  |                                   |   |      |                    |  |  |
| Crop Production Services          | 05 10   | Agrico-Village Green              | 5.1                | 9.2- | 4.7   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green 50% Org N    | 4.8                | 9.5  | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green              | 10.1               | 17.3 | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Fertilizer                 | 9.0                | 13.9 | 11.4  |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico                            | 8.2                | 22.2 | 14.5  |                                   |   |      |                    |  |  |
|                                   | 06 03   | Agrico Tobacco                    | 6.2                | 3.4  | 3.8-  |                                   |   |      |                    |  |  |
|                                   | 08 08   | Agrico Fertilizer                 | 9.5                | 5.8- | 5.1-  |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 17.9               | 12.6 | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 8.6-               | 16.0 | 6.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico-Village Green 50% Org N    | 11.2               | 7.7  | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 11.7               | 8.6- | 9.4   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico Village Green Specialty    | 13.2               | 17.8 | 11.0  |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 12.6               | 13.6 | 12.8  |                                   |   |      |                    |  |  |
|                                   | 10 20   | Agrico Fertilizer                 | 18.4               | 29.3 | 10.3- |                                   |   |      |                    |  |  |
| Faesy & Besthoff, Inc.            | 14 41   | Agrico                            | 15.4               |      | 42.0  |                                   |   |      |                    |  |  |
|                                   | 15 10   | Agrico Fertilizer                 | 16.0               | 12.0 | 7.4-  |                                   |   |      |                    |  |  |
|                                   | 15 10.7 | Agrico                            | 14.3               | 11.6 | 12.3  |                                   |   |      |                    |  |  |
|                                   | 15 15   | Agrico                            | 17.3               | 15.1 | 15.1  |                                   |   |      |                    |  |  |
|                                   | 15 15   | Agrico                            | 19.5               | 22.1 | 15.0  |                                   |   |      |                    |  |  |
|                                   | 19 19   | Agrico                            | 20.1               | 20.7 | 17.5- |                                   |   |      |                    |  |  |
|                                   | 19 19   | Agrico Fertilizer                 | 19.0               | 20.0 | 11.7- |                                   |   |      |                    |  |  |
| Fer-Mel Corp.                     | 05 10   | Agrico-Village Green              | 5.1                | 9.2- | 4.7   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green 50% Org N    | 4.8                | 9.5  | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green              | 10.1               | 17.3 | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Fertilizer                 | 9.0                | 13.9 | 11.4  |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico                            | 8.2                | 22.2 | 14.5  |                                   |   |      |                    |  |  |
|                                   | 06 03   | Agrico Tobacco                    | 6.2                | 3.4  | 3.8-  |                                   |   |      |                    |  |  |
|                                   | 08 08   | Agrico Fertilizer                 | 9.5                | 5.8- | 5.1-  |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 17.9               | 12.6 | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 8.6-               | 16.0 | 6.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico-Village Green 50% Org N    | 11.2               | 7.7  | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 11.7               | 8.6- | 9.4   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico Village Green Specialty    | 13.2               | 17.8 | 11.0  |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 12.6               | 13.6 | 12.8  |                                   |   |      |                    |  |  |
|                                   | 10 20   | Agrico Fertilizer                 | 18.4               | 29.3 | 10.3- |                                   |   |      |                    |  |  |
| Green Changer Fert. Co.           | 14 41   | Agrico                            | 15.4               |      | 42.0  |                                   |   |      |                    |  |  |
|                                   | 15 10   | Agrico Fertilizer                 | 16.0               | 12.0 | 7.4-  |                                   |   |      |                    |  |  |
|                                   | 15 10.7 | Agrico                            | 14.3               | 11.6 | 12.3  |                                   |   |      |                    |  |  |
|                                   | 15 15   | Agrico                            | 17.3               | 15.1 | 15.1  |                                   |   |      |                    |  |  |
|                                   | 15 15   | Agrico                            | 19.5               | 22.1 | 15.0  |                                   |   |      |                    |  |  |
|                                   | 19 19   | Agrico                            | 20.1               | 20.7 | 17.5- |                                   |   |      |                    |  |  |
|                                   | 19 19   | Agrico Fertilizer                 | 19.0               | 20.0 | 11.7- |                                   |   |      |                    |  |  |
| Holland Bulb Products             | 05 10   | Agrico-Village Green              | 5.1                | 9.2- | 4.7   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green 50% Org N    | 4.8                | 9.5  | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green              | 10.1               | 17.3 | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Fertilizer                 | 9.0                | 13.9 | 11.4  |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico                            | 8.2                | 22.2 | 14.5  |                                   |   |      |                    |  |  |
|                                   | 06 03   | Agrico Tobacco                    | 6.2                | 3.4  | 3.8-  |                                   |   |      |                    |  |  |
|                                   | 08 08   | Agrico Fertilizer                 | 9.5                | 5.8- | 5.1-  |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 17.9               | 12.6 | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 8.6-               | 16.0 | 6.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico-Village Green 50% Org N    | 11.2               | 7.7  | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 11.7               | 8.6- | 9.4   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico Village Green Specialty    | 13.2               | 17.8 | 11.0  |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 12.6               | 13.6 | 12.8  |                                   |   |      |                    |  |  |
|                                   | 10 20   | Agrico Fertilizer                 | 18.4               | 29.3 | 10.3- |                                   |   |      |                    |  |  |
| Hy-Trous/Flash Sales, Inc.        | 14 41   | Agrico                            | 15.4               |      | 42.0  |                                   |   |      |                    |  |  |
|                                   | 15 10   | Agrico Fertilizer                 | 16.0               | 12.0 | 7.4-  |                                   |   |      |                    |  |  |
|                                   | 15 10.7 | Agrico                            | 14.3               | 11.6 | 12.3  |                                   |   |      |                    |  |  |
|                                   | 15 15   | Agrico                            | 17.3               | 15.1 | 15.1  |                                   |   |      |                    |  |  |
|                                   | 15 15   | Agrico                            | 19.5               | 22.1 | 15.0  |                                   |   |      |                    |  |  |
|                                   | 19 19   | Agrico                            | 20.1               | 20.7 | 17.5- |                                   |   |      |                    |  |  |
|                                   | 19 19   | Agrico Fertilizer                 | 19.0               | 20.0 | 11.7- |                                   |   |      |                    |  |  |
| Per-Mel Corp.                     | 05 10   | Agrico-Village Green              | 5.1                | 9.2- | 4.7   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green 50% Org N    | 4.8                | 9.5  | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green              | 10.1               | 17.3 | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Fertilizer                 | 9.0                | 13.9 | 11.4  |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico                            | 8.2                | 22.2 | 14.5  |                                   |   |      |                    |  |  |
|                                   | 06 03   | Agrico Tobacco                    | 6.2                | 3.4  | 3.8-  |                                   |   |      |                    |  |  |
|                                   | 08 08   | Agrico Fertilizer                 | 9.5                | 5.8- | 5.1-  |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 17.9               | 12.6 | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 8.6-               | 16.0 | 6.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico-Village Green 50% Org N    | 11.2               | 7.7  | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 11.7               | 8.6- | 9.4   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico Village Green Specialty    | 13.2               | 17.8 | 11.0  |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 12.6               | 13.6 | 12.8  |                                   |   |      |                    |  |  |
|                                   | 10 20   | Agrico Fertilizer                 | 18.4               | 29.3 | 10.3- |                                   |   |      |                    |  |  |
| Vigoro All Purpose                | 14 41   | Agrico                            | 15.4               |      | 42.0  |                                   |   |      |                    |  |  |
|                                   | 15 10   | Agrico Fertilizer                 | 16.0               | 12.0 | 7.4-  |                                   |   |      |                    |  |  |
|                                   | 15 10.7 | Agrico                            | 14.3               | 11.6 | 12.3  |                                   |   |      |                    |  |  |
|                                   | 15 15   | Agrico                            | 17.3               | 15.1 | 15.1  |                                   |   |      |                    |  |  |
|                                   | 15 15   | Agrico                            | 19.5               | 22.1 | 15.0  |                                   |   |      |                    |  |  |
|                                   | 19 19   | Agrico                            | 20.1               | 20.7 | 17.5- |                                   |   |      |                    |  |  |
|                                   | 19 19   | Agrico Fertilizer                 | 19.0               | 20.0 | 11.7- |                                   |   |      |                    |  |  |
| Vigoro All Purpose                | 05 10   | Agrico-Village Green              | 5.1                | 9.2- | 4.7   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green 50% Org N    | 4.8                | 9.5  | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Village Green              | 10.1               | 17.3 | 5.1   |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico Fertilizer                 | 9.0                | 13.9 | 11.4  |                                   |   |      |                    |  |  |
|                                   | 05 10   | Agrico                            | 8.2                | 22.2 | 14.5  |                                   |   |      |                    |  |  |
|                                   | 06 03   | Agrico Tobacco                    | 6.2                | 3.4  | 3.8-  |                                   |   |      |                    |  |  |
|                                   | 08 08   | Agrico Fertilizer                 | 9.5                | 5.8- | 5.1-  |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 17.9               | 12.6 | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico Village Green              | 8.6-               | 16.0 | 6.6   |                                   |   |      |                    |  |  |
|                                   | 10 06   | Agrico-Village Green 50% Org N    | 11.2               | 7.7  | 3.6   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 11.7               | 8.6- | 9.4   |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico Village Green Specialty    | 13.2               | 17.8 | 11.0  |                                   |   |      |                    |  |  |
|                                   | 10 10   | Agrico                            | 12.6               | 13.6 | 12.8  |                                   |   |      |                    |  |  |
|                                   | 10 20   | Agrico Fertilizer                 | 18.4               | 29.3 | 10.3- |                                   |   |      |                    |  |  |

| Manufacturer, guarantee and brand             |                   |     | Nutrients found, %                |       |       | Manufacturer, guarantee and brand |   |    | Nutrients found, % |  |      |      |      |
|---|-------------------|-----|-----------------------------------|-------|-------|-----------------------------------|---|----|--------------------|--|------|------|------|
|   |                   |     | N                                 | P205  | K20   |                                   |   |    | N                  | P205                                   | K20  |      |      |
| <u>Hyponex Corp.</u>                          |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
| 05  | 10                | 05  | Hy-Trous Liquid Fert              | 4.7   | 10.0  | 5.6                               | 18  | 04 | 10                 | Lebanon Country Club                   | 18.7 | 4.2  | 9.6  |
| 05  | 10                | 05  | Hy-Trous Liquid Fert              | 5.2   | 10.0  | 5.1                               | 20  | 08 | 08                 | Greens Keeper w/50% Org Nit            | 20.1 | 8.0  | 8.8  |
| 05  | 10                | 05  | Hy-Trous Liquid Fert              | 5.1   | 10.2  | 4.7                               | 24  | 04 | 04                 | Green Pro Crabgrass Prev/Grass Fd 31.2 | 31.2 | 4.1  | 3.5  |
| <u>Hyponex Corp.</u>                          |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
| 05  | 10                | 05  | Hyponex Houseplant Food All Purp  | 4.6   | 10.8  | 6.0                               | 24  | 04 | 04                 | Green Pro Crabgrass Prev/Grass Fd 34.8 | 34.8 | 3.4  | 2.4- |
| 07  | 06                | 19  | Hyponex Houseplant Food All Purp  | 7.1   | 7.1   | 20.2                              | 30  | 03 | 03                 | Green Pro Weed Cont + Grass Food 31.8  | 31.8 | 4.4  | 2.1- |
| 07  | 06                | 19  | Hyponex Houseplant Food All Purp  | 7.9   | 7.1   | 21.4                              | 30  | 03 | 03                 | Green Pro Weed Cont + Grass Food 31.8  | 31.8 | 4.4  | 2.1- |
| 07  | 06                | 19  | Hyponex Plant Food                | 7.6   | 7.1   | 21.9                              | 30  | 04 | 04                 | Green Power                            | 33.5 | 2.7  | 2.5- |
| 08  | 04                | 02  | Hyponex All Org Fish P1 Fd Stks   | 9.9   | 7.2   | 3.0                               | 30  | 04 | 04                 | Green Power                            | 33.3 | 3.7  | 4.3  |
| 10  | 05                | 05  | Hyponex Hypo-styx Foliage P1 Fd   | 12.0  | 5.9   | 6.1                               | 32  | 04 | 04                 | Green Pro Grass Food                   | 32.4 | 4.4  | 4.8  |
| 10  | 05                | 05  | Hyponex Bug Dart plus Plant Food  | 13.1  | 6.2   | 6.3                               | 32  | 04 | 04                 | Green Pro Grass Food                   | 32.9 | 3.8  | 4.4  |
| <u>Leeming Div./Pfizer Inc.</u>               |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
|   |                   |     |                                   | 01    | 02    | 01                                |   |    |                    | House in Bloom Flowering Plant Fd      | 1.0  | 2.3  | 1.1  |
| <u>International Minerals &amp; Chem. Co.</u> |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
| 11  | 52                | MAP |                                   | 11.6  | 52.8  |                                   |   |    |                    |  |      |      |      |
| <u>Lesco, Inc.</u>                            |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
|   |                   |     |                                   | 18    | 05    | 09                                |   |    |                    | Lesco Prof Turf Fert W/Lescoscan       | 17.6 | 6.4  | 9.3  |
| <u>Lofts, Inc.</u>                            |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
| 05  | 15                | 15  | Jobe's Fert. Spikes - Fruit Trees | 13.7  | 13.4- | 15.7                              | 05  | 09 | 06                 | Lofta Flower Food                      | 8.6  | 8.9  | 5.6  |
| 08  | 24                | 08  | Jobe's Fert Spikes/Tom/Gard Veg   | 12.9  | 26.5  | 10.3                              | 05  | 10 | 10                 | Lofts Tomato & Veg Food                | 7.9  | 5.5- | 6.2- |
| 12  | 06                | 08  | Jobe's Fert Spikes/Evgr Trees     | 16.4  | 8.3   | 12.9                              | 05  | 10 | 10                 | Lofts Tomato & Vegetable Food          | 12.7 | 9.5  | 2.9- |
| 12  | 16                | 12  | Jobe's Fertilizer Spikes - Roses  | 15.8  | 16.5  | 14.5                              | 07  | 09 | 07                 | Lofts Broadleaf & Vegetable Food       | 10.8 | 19.7 | 3.7- |
| 13  | 04                | 05  | Jobe's Plant Fd Spks/House Plnts  | 13.6  | 5.3   | 6.8                               | <u>Marcon Distributing Co., Inc.</u>            |    |                    |  |      |      |      |
| 13  | 04                | 05  | Jobe's Plant Food Spikes          | 13.0  | 5.4   | 6.1                               | 15  | 30 | 15                 | Marcon's Plant Food                    | 9.6- | 28.8 | 16.3 |
| 13  | 04                | 05  | Jobe's Plant Food Spikes          | 13.2  | 4.9   | 6.8                               | <u>Milwaukee Metropolitan Sewerage District</u> |    |                    |  |      |      |      |
| 13  | 05                | 07  | Jobe's Fert Spikes/Flow/Shrubs    | 18.7  | 5.7   | 8.8                               | 06  | 02 | 02                 | Milorganite Active Sewage Sludge       | 6.2  | 2.2  |      |
| 15  | 05                | 05  | Jobe's Spikes for Young Trees     | 17.1  | 5.6   | 9.5                               | <u>Nitrochem, Inc.</u>                          |    |                    |  |      |      |      |
| 16  | 01                | 06  | Jobe's Plnt Fd Spks/Ferns/Palms   | 17.0  | 2.3   | 7.3                               | 34  |    |                    | Bull's Eye Ammonium Nitrate            | 34.8 |      |      |
| 16  | 08                | 08  | Jobe's Fert. Spikes - Trees       | 23.3  | 9.4   | 8.9                               | <u>Nor-Am Chemical Co.</u>                      |    |                    |  |      |      |      |
| 20  | 20                | 20  | Jobe's Plnt Fd/Indoor-Outdoor     | 18.1- | 20.2  | 22.3                              | 38  |    |                    | Nitroform Blue Chip                    | 37.0 |      |      |
| <u>J. T. Baker Chemical Co.</u>               |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
| 09  | 09                | 06  | One-A-Bulb Prem Fert Tabs         | 10.0  | 9.5   | 14.1                              | <u>O. M. Scott &amp; Sons Co.</u>               |    |                    |  |      |      |      |
| <u>Kalium Chemical</u>                        |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
| 62  | Muriste of Potash |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
| <u>Koos, Inc.</u>                             |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
| 05  | 10                | 05  | Nature's Best Garden Fert         | 6.6   | 11.8  | 14.1                              | 15  | 20 | 15                 | Burpee Grow Tomatoes                   | 17.3 | 20.7 | 14.6 |
| <u>Lebanon Chem. Corp.</u>                    |                   |     |                                   |       |       |                                   |   |    |                    |  |      |      |      |
| 05  | 10                | 04  | Lebanon Veg Gard Food             | 3.5-  | 12.6  | 5.5                               | 18  | 04 | 07                 | Burpee Grow Azal/Camellia/Rhod         | 19.3 | 5.1  | 7.4  |
| 05  | 10                | 05  | Country Squire Lawn & Garden      | 5.0   | 8.5   | 4.6                               | 18  | 12 | 14                 | Burpee Grow Flowers                    | 18.0 | 11.9 | 13.7 |
| 07  | 02                |     | Agrinite 100% Organic             | 9.3   | 3.1   |                                   | 18  | 12 | 14                 | Burpee Grow Flowers                    | 19.5 | 11.8 | 13.0 |
| 09  | 05                | 03  | Acres                             | 14.0  | 5.7   | 5.1                               | 18  | 24 | 06                 | Burpee Grow Transplants                | 19.4 | 26.6 | 5.2- |
| 09  | 05                | 03  | Lebanon Azal, Evergreen & Rhod    | 9.9   | 5.7   | 4.4                               | 18  | 24 | 06                 | Burpee Grow Vegetables                 | 19.8 | 25.0 | 5.0- |
| 09  | 19                | 09  | Greenview Tomato-Mate             | 11.1  | 24.0  | 12.9                              | 18  | 24 | 06                 | Scott's Starter Fert                   | 20.3 | 24.4 | 5.7  |
| 10  | 06                | 04  | Country Squire Lawn & Garden      | 11.4  | 5.8   | 4.6                               | 20  | 04 | 06                 | Burpee Grow Vegetables                 | 19.0 | 25.1 | 6.1  |
| 10  | 06                | 04  | Lebanon Grass Food                | 10.4  | 6.6   | 4.1                               | 26  | 03 | 03                 | Burpee Grow Shrubas/Trees/Evgrns       | 23.7 | 4.5  | 6.6- |
| 10  | 10                | 10  | Lebanon                           | 10.2  | 12.3  | 10.3                              | 27  | 03 | 03                 | Scott's Turf Bldr/Weed Cont/Ln Fd      | 26.6 | 2.8  | 2.8  |
| 13  | 25                | 12  | Green Pro Fall Grass Food         | 13.4  | 25.1  | 12.1                              | <u>Old Fox Chemical, Inc.</u>                   |    |                    |  |      |      |      |
| 13  | 25                | 12  | Green Pro Fall Grass Food         | 13.3  | 24.6  | 13.6                              | 05  | 06 | 07                 | Old Fox Custom Mix                     | 4.7  | 11.1 | 9.4  |
|   |                   |     |                                   |       |       |                                   | 05  | 10 | 05                 | Old Fox Garden Food                    | 5.5  | 11.4 | 8.6  |
|   |                   |     |                                   |       |       |                                   | 05  | 10 | 05                 | Old Fox                                | 5.5  | 12.9 | 7.0  |



| Manufacturer, guarantee and brand |      |                                     | Nutrients found, % |       |       | Manufacturer, guarantee and brand |    |    | Nutrients found, % |                                  |       |       |      |
|-----------------------------------|------|-------------------------------------|--------------------|-------|-------|-----------------------------------|----|----|--------------------|----------------------------------|-------|-------|------|
|                                   |      |                                     | N                  | P205  | K20   |                                   |    |    | N                  | P205                             | K20   |       |      |
| 05                                | 10   | 05 Old Fox Garden Food              | 5.1                | 8.9-  | 11.7  | Ross Daniels, Inc.                | 08 | 16 | 16                 | Ross Gro-Stks/Frt-Orn Tree/Shrbs | 9.9   | 18.8  | 18.7 |
| 05                                | 10   | 10 Old Fox                          | 7.4                | 24.2  | 15.3  |                                   | 08 | 16 | 16                 | Ross Gro-Stakes                  | 10.7  | 18.5  | 18.9 |
| 06                                | 10   | 06 Old Fox Shrub & Tree Food        | 14.1               | 12.1  | 17.6  |                                   | 08 | 16 | 16                 | Ross Gro-Stakes                  | 10.1  | 51.0  | 17.6 |
| 06                                | 10   | 06 Old Fox Shrub & Tree Food        | 11.2               | 10.2  | 15.5  |                                   | 09 | 46 | 15                 | Ross Gro For Young Trees         | 11.4  | 11.7  | 12.3 |
| 10                                | 06   | 04 Old Fox Turf Grass 50% Org N     | 11.2               | 7.8   | 18.4  |                                   | 10 | 10 | 10                 | Ross Gro-Stakes Evergreens       | 11.2  | 11.8  | 10.4 |
| 10                                | 06   | 04 Old Fox Turf Grass 50% Org N     | 15.3               | 8.9   | 7.7   |                                   | 10 | 10 | 10                 | Ross Gro-Stakes                  | 12.4  | 12.1  | 12.3 |
| 10                                | 08   | 10 Old Fox for Tobacco              | 11.3               | 10.3  | 9.4   |                                   | 10 | 10 | 10                 | Ross Gro-Stakes for Evergreens   | 17.8  | 4.6   | 14.6 |
| 10                                | 10   | 10 Old Fox                          | 10.8               | 24.2  | 15.3  |                                   | 10 | 10 | 10                 | Ross Gro-Stks Evgr/Azal/Cam/Rhod | 17.2  | 10.4  | 8.8  |
| 10                                | 10   | 10 Old Fox                          | 12.4               | 12.5  | 6.6-  |                                   | 16 | 04 | 08                 | Ross Gro-Stakes Trees & Shrubs   | 17.4  | 12.8  | 8.8  |
| 10                                | 20   | 10 Old Fox                          | 9.6                | 14.1- | 10.9  |                                   | 16 | 10 | 09                 | Ross Gro-Stakes                  |       |       |      |
| 10                                | 20   | 20 Old Fox                          | 12.0               | 21.6  | 20.2  |                                   | 16 | 10 | 09                 | Ross Gro-Stakes                  |       |       |      |
| 12                                | 02   | 08 Old Fox                          | 12.1               | 2.2   | 10.7  |                                   |    |    |                    |                                  |       |       |      |
| 15                                | 15   | 15 Old Fox                          | 15.8               | 12.6- | 16.0  | Schultz Co.                       | 10 | 15 | 10                 | Schultz Instant Liq Plant Food   | 10.5  | 14.1- | 10.9 |
| 16                                | 09   | 10 Old Fox                          | 13.7-              | 9.3   | 12.5  |                                   |    |    |                    |                                  |       |       |      |
| 18                                | 07   | 29 Old Fox Blend                    | 16.7-              | 6.3-  | 45.5  |                                   |    |    |                    |                                  |       |       |      |
| 18                                | 11   | 17 Old Fox                          | 18.1               | 13.9  | 17.2  | Sierra Chem. Co.                  | 18 | 06 | 12                 | Osmocote Controlled Release      | 17.0  | 7.6   | 13.4 |
| 20                                | 04   | 08 Old Fox Green Gro 40% Org N      | 20.1               | 8.1   | 9.9   |                                   |    |    |                    |                                  |       |       |      |
| 24                                | 04   | 24 Old Fox Blend                    | 19.4-              | 9.0   | 30.7  |                                   |    |    |                    |                                  |       |       |      |
| 4.59                              | 5.62 | 6.20 Old Fox Custom                 | 5.2                | 7.0   | 6.4   |                                   |    |    |                    |                                  |       |       |      |
| 4.64                              | 4.41 | 6.27 Old Fox Custom                 | 4.5                | 7.9   | 7.0   | Sohio Chem. Co.                   | 46 |    |                    | Vistron                          | 46.1  |       |      |
| 4.65                              | 5.69 | 5.29 Old Fox Custom                 | 5.4                | 4.1-  | 5.4   |                                   |    |    |                    |                                  |       |       |      |
| 4.70                              | 4.47 | 5.36 Old Fox Custom                 | 5.0                | 6.5   | 6.7   | Sterns Nurseries, Inc.            | 15 | 30 | 15                 | Miracle Gro Plant Food           | 16.1  | 33.8  | 16.6 |
| 4.73                              | 5.80 | 4.19 Old Fox Custom                 | 4.8                | 7.1   | 5.8   |                                   | 15 | 30 | 15                 | Miracle Gro Plant Food           | 17.0  | 30.0  | 15.4 |
| 4.76                              | 3.27 | 5.42 Old Fox Custom                 | 5.1                | 5.4   | 5.4   |                                   | 18 | 18 | 21                 | Miracle Gro Tomatoes             | 10.8- | 19.6  | 21.1 |
| 4.88                              | 2.38 | 4.32 Old Fox Custom                 | 6.7                | 8.9   | 4.0   |                                   | 30 | 10 | 10                 | Miracle Soil Acidifier & P1 Fd   | 33.2  | 10.3  | 10.9 |
| 4.95                              | 3.39 | 3.33 Old Fox Custom                 | 5.1                | 5.1   | 5.2   |                                   |    |    |                    |                                  |       |       |      |
| 7.2                               | 7.2  | 7.14 Old Fox Custom                 | 6.3-               | 6.8   | 8.9   | Sudbury Lab                       |    |    | 44                 | Sudbury Potash                   |       |       | 48.4 |
| Parrot Agro Industries, Inc.      |      |                                     |                    |       |       |                                   |    |    | 44                 | Sudbury Phosphorus               |       |       |      |
| 15                                | 30   | 15 Power-Gro Power Conc & Vit Nutr  | 15.7               | 31.6  | 13.8- |                                   |    |    | 44                 | Sudbury Nitrogen                 | 48.4  |       |      |
| 20                                | 20   | 20 Parrots Professional Formula     | 20.5               | 20.7  | 20.4  |                                   |    |    |                    |                                  |       |       |      |
| 30                                | 10   | 10 Power-Gro Acidifier & Plant Food | 30.2               | 9.4   | 10.4  |                                   |    |    |                    |                                  |       |       |      |
| Plant Research Lab                |      |                                     |                    |       |       | Unique Fertilizer, Inc.           | 16 | 08 | 16                 | The Unique Feeder                | 18.6  | 13.9  | 18.8 |
| 01                                | 02   | 01 Oxygen Plus Plant Food           | 1.3                | 2.4   | 1.4   |                                   |    |    |                    |                                  |       |       |      |
| 01                                | 02   | 01 Oxygen Plus Plant Food Vit Nutr  | 1.2                | 2.1   | 1.2   | Universal Chemical Co., Inc.      | 05 | 10 | 03                 | Electra Plant Food               | 5.7   | 8.4-  | 3.1  |
| 01                                | 04   | 02 Oxygen Plus Flowering Houseplant | 1.5                | 4.2   | 2.1   |                                   |    |    |                    |                                  |       |       |      |
| 04                                | 04   | 04 Oxygen Plus Outdoor Cont Pl Fd   | 4.3                | 3.7   | 5.7   |                                   |    |    |                    |                                  |       |       |      |
| 1.3                               | 2.5  | 1.2 Oxygen Plus Indoor Plant Food   | 1.4                | 2.6   | 1.4   | Valagra, Inc.                     | 08 | 23 | 12                 | Valagra                          | 12.0  | 22.2  | 18.1 |
| Plantabbs Corp.                   |      |                                     |                    |       |       |                                   | 10 | 06 | 04                 | Valagra                          | 11.5  | 6.8   | 4.5  |
| 08                                | 06   | 12 Plantabbs Terrarium Plant Food   | 18.4               | 6.5   | 13.7  |                                   | 10 | 10 | 10                 | Valagra                          | 12.5  | 11.7  | 10.1 |
| Rapid-Gro Corp.                   |      |                                     |                    |       |       |                                   | 12 | 04 | 08                 | Valagra Custom Blend             | 12.3  | 5.1   | 7.2- |
| 10                                | 08   | 07 Rapid-Gro Liquid Houseplant Food | 11.0               | 8.2   | 8.0   |                                   | 12 | 04 | 08                 | Valagra w/Pell Limestone         | 10.0- | 1.6-  | 2.6- |
| 23                                | 19   | 17 Rapid-Gro Plant Food             | 13.3-              | 19.7  | 18.9  |                                   | 12 | 15 | 15                 | Valagra                          | 16.4  | 19.2  | 8.1- |
| 23                                | 19   | 17 Rapid-Gro House Pl Fd W/Mic Nutr | 23.2               | 19.4  | 18.4  |                                   | 15 | 05 | 10                 | Valagra                          | 15.5  | 7.7   | 10.3 |
| 23                                | 19   | 17 Rapid-Gro House Plant Food       | 22.9               | 20.5  | 18.3  |                                   | 20 | 05 | 10                 | Valagra                          | 20.6  | 6.6   | 1.3- |
| 23                                | 19   | 17 Rapid-Gro House Plant Food       | 24.1               | 19.2  | 18.6  |                                   | 22 | 22 | 22                 | Valagra                          | 25.0  | 20.3- |      |
| Robert N. McClellan & Son, Inc.   |      |                                     |                    |       |       | W. R. Grace & Co.                 | 07 | 40 | 06                 | Mag AMP Continuous Release       | 7.8   | 46.2  | 5.7  |
| 02                                | 01   | 02 Bovung Dehydrated Cow Manure     | 1.0-               | 1.1   | 1.1-  |                                   |    |    |                    |                                  |       |       |      |

| Manufacturer, guarantee and brand              |    |                                      | Nutrients found, % |       |      |
|--|----|--------------------------------------|--------------------|-------|------|
|  |    |                                      | N                  | P2O5  | K2O  |
| 10   | 30 | 20 Peters Prof Sol Pl Fd/Bloss Boost | 11.1               | 31.5  | 22.5 |
| 12   | 36 | 14 Peters Spec Sol Pl Fd/Afr Violet  | 12.3               | 40.5  | 13.2 |
| 15   | 30 | 15 Peters Prof Sol Pl Fd/Houseplant  | 15.6               | 30.4  | 16.7 |
| 15   | 30 | 15 Peters Pro Sol Pl Fd/Houseplant   | 15.4               | 30.1  | 17.7 |
| 15   | 30 | 15 Peters Houseplant Food            | 10.0-              | 29.9  | 17.9 |
| 17   | 06 | 06 Peters Pro Sol Pl Fd/Acid Grn     | 16.9               | 6.2   | 7.8  |
| 18   | 18 | 18 Peters Prof Sol Plant Food        | 17.4               | 19.2  | 19.4 |
| 20   | 20 | 20 Peters Prof Gen Purp              | 12.3-              | 17.1- | 22.8 |
| 21   | 07 | 07 Peters Spec Sol Pl Fd/Acid Spec   | 21.7               | 8.7   | 8.5  |
| 30   | 10 | 10 Peters Professional Orchid        | 30.1               | 12.4  | 13.0 |
| 30   | 10 | 10 Peters Prof Sol Plant Food        | 21.8-              | 12.0  | 12.9 |
| <u>Waterlizer Div. of American Aqua-Tec.</u>   |    |                                      |                    |       |      |
| 35   | 05 | 10 Waterlizer Lawn Food              | 35.7               | 5.5   | 11.6 |
| <u>Wagro Div. of Old Ford Industries, Inc.</u> |    |                                      |                    |       |      |
| 07   | 08 | 05 XXX Rose Maker                    | 8.6                | 10.8  | 5.1  |
| <u>WGM/Hydro</u>                               |    |                                      |                    |       |      |
| 15.5   |    | Vikingship Brand                     | 14.8               |       |      |
| <u>Woolfolk Chemical Works, Inc.</u>           |    |                                      |                    |       |      |
| 14   | 14 | 14 Osmorote Foliage and Pot Pl Fd    | 14.2               | 14.3  | 15.1 |

Table 2. Summary for Each Manufacturer of Number of Claims for Individual Plant Nutrients, Percentage of Claims Not Meeting Guarantee, and Average Percentage of Guarantee for Each Nutrient.

| Company                | Number<br>Samples | Number of Claims |      |     | % Not Meeting Claim |      |     | Average % of Claim |      |     |
|------------------------|-------------------|------------------|------|-----|---------------------|------|-----|--------------------|------|-----|
|                        |                   | N                | P2O5 | K2O | N                   | P2O5 | K2O | N                  | P2O5 | K2O |
| A.H. Hoffman           | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 130                | 108  | 122 |
| Agino                  | 1                 | 1                | 0    | 0   | 0                   | —    | —   | 102                | —    | —   |
| Agri-Turf              | 1                 | 1                | 1    | 1   | 0                   | 0    | 100 | 105                | 158  | 87  |
| Agrico                 | 1                 | 0                | 1    | 1   | —                   | 0    | 100 | —                  | 165  | 84  |
| Agway                  | 28                | 27               | 28   | 27  | 15                  | 14   | 30  | 102                | 115  | 117 |
| Allied                 | 1                 | 1                | 0    | 0   | 0                   | —    | —   | 104                | —    | —   |
| Anderson Peat          | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 150                | 100  | 100 |
| Andersons              | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 110                | 98   | 127 |
| Atlas Fish Fert.       | 3                 | 3                | 3    | 3   | 0                   | 0    | 0   | 109                | 157  | 193 |
| Burnishine             | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 83                 | 95   | 100 |
| Cadwell & Jones        | 33                | 33               | 32   | 32  | 9                   | 28   | 19  | 108                | 97   | 99  |
| Carefree               | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 103                | 115  | 113 |
| Charles C. Hart        | 2                 | 2                | 2    | 2   | 0                   | 0    | 0   | 121                | 123  | 104 |
| Chevron                | 16                | 16               | 16   | 16  | 0                   | 6    | 6   | 111                | 105  | 115 |
| Ciba-Geigy             | 1                 | 1                | 1    | 1   | 100                 | 0    | 0   | 87                 | 98   | 101 |
| Clinton Nursery        | 8                 | 8                | 8    | 8   | 0                   | 25   | 0   | 113                | 100  | 142 |
| Crop Production        | 23                | 23               | 21   | 22  | 4                   | 14   | 32  | 125                | 136  | 97  |
| Espoma                 | 5                 | 5                | 5    | 5   | 0                   | 0    | 20  | 124                | 160  | 129 |
| Estech                 | 18                | 18               | 18   | 18  | 0                   | 0    | 22  | 149                | 152  | 119 |
| Faesy & Besthoff       | 3                 | 3                | 1    | 1   | 0                   | 0    | 0   | 104                | 280  | 180 |
| Fer-Mel                | 2                 | 2                | 1    | 2   | 50                  | 0    | 50  | 120                | 136  | 119 |
| Green Charger          | 1                 | 1                | 1    | 1   | 100                 | 0    | 0   | 69                 | 123  | 176 |
| Holland Bulb           | 2                 | 2                | 2    | 2   | 0                   | 0    | 50  | 153                | 152  | 88  |
| Hy-Trous/Flash         | 7                 | 7                | 7    | 7   | 14                  | 0    | 0   | 102                | 103  | 126 |
| Hyponex                | 7                 | 7                | 7    | 7   | 0                   | 0    | 0   | 113                | 126  | 122 |
| International Minerals | 1                 | 1                | 1    | 0   | 0                   | 0    | —   | 106                | 102  | —   |
| International Spike    | 12                | 12               | 12   | 12  | 8                   | 8    | 0   | 134                | 126  | 131 |
| J. T. Baker            | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 111                | 106  | 235 |
| Kalium                 | 1                 | 0                | 0    | 1   | —                   | —    | 0   | —                  | —    | 102 |
| Koos                   | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 132                | 118  | 282 |
| Lebanon                | 20                | 20               | 20   | 19  | 5                   | 0    | 15  | 112                | 115  | 109 |
| Leeming/Pfizer         | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 100                | 115  | 110 |
| Lesco                  | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 98                 | 128  | 103 |
| Lofts                  | 4                 | 4                | 4    | 4   | 0                   | 25   | 75  | 184                | 117  | 60  |
| Marcon                 | 1                 | 1                | 1    | 1   | 100                 | 0    | 0   | 64                 | 96   | 109 |
| Milwaukee              | 1                 | 1                | 1    | 0   | 0                   | 0    | —   | 103                | 110  | —   |
| Nitrochem              | 1                 | 1                | 0    | 0   | 0                   | —    | —   | 102                | —    | —   |
| Nor-Am                 | 1                 | 1                | 0    | 0   | 0                   | —    | —   | 97                 | —    | —   |
| O. M. Scott            | 11                | 11               | 11   | 11  | 0                   | 0    | 27  | 109                | 106  | 98  |
| Old Fox                | 30                | 30               | 30   | 30  | 13                  | 17   | 3   | 115                | 143  | 147 |
| Parrot Agro            | 3                 | 3                | 3    | 3   | 0                   | 0    | 33  | 103                | 101  | 99  |
| Plant Research         | 5                 | 5                | 5    | 5   | 0                   | 0    | 0   | 123                | 105  | 125 |
| Plantabbs              | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 230                | 108  | 114 |
| Rapid-Gro              | 5                 | 5                | 5    | 5   | 20                  | 0    | 0   | 85                 | 103  | 110 |
| Robert N. McClellan    | 1                 | 1                | 1    | 1   | 100                 | 0    | 100 | 50                 | 110  | 55  |
| Ross Daniels           | 9                 | 9                | 9    | 9   | 0                   | 0    | 0   | 116                | 116  | 120 |
| Schultz                | 1                 | 1                | 1    | 1   | 0                   | 100  | 0   | 105                | 94   | 109 |
| Sierra                 | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 94                 | 127  | 112 |
| Sohio                  | 1                 | 1                | 0    | 0   | 0                   | —    | —   | 100                | —    | —   |
| Sterns Nurseries       | 4                 | 4                | 4    | 4   | 25                  | 0    | 0   | 98                 | 106  | 106 |
| Sudbury Lab            | 3                 | 1                | 1    | 1   | 0                   | 0    | 0   | 110                | 128  | 110 |
| Unique Fertilizer      | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 116                | 174  | 118 |
| Universal              | 1                 | 1                | 1    | 1   | 0                   | 100  | 0   | 114                | 84   | 103 |
| Valagra                | 9                 | 9                | 8    | 8   | 11                  | 13   | 63  | 115                | 114  | 83  |
| W. R. Grace            | 12                | 12               | 12   | 12  | 25                  | 8    | 0   | 94                 | 106  | 115 |
| Waterlizer/Amer. Aqua  | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 102                | 110  | 116 |
| Wegro/Old Ford         | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 123                | 135  | 102 |
| WGM/Hydro              | 1                 | 1                | 0    | 0   | 0                   | —    | —   | 96                 | —    | —   |
| Woolfolk               | 1                 | 1                | 1    | 1   | 0                   | 0    | 0   | 101                | 102  | 108 |

Table 3. Distribution of  
Mixed Fertilizer Sold in  
Connecticut July 1, 1984-  
June 30, 1985

| Grade         | Tons  |
|---------------|-------|
| 05-10-05      | 1102  |
| 05-10-10      | 1015  |
| 10-05-05      | 38    |
| 10-06-04      | 2203  |
| 10-10-10      | 5735  |
| 10-20-10      | 591   |
| 15-08-12      | 702   |
| 15-10-05      | 2     |
| 15-10-10      | 1626  |
| 15-15-15      | 887   |
| 15-20-25      | 6     |
| 15-30-15      | 107   |
| 18-04-10      | 24    |
| 19-19-19      | 283   |
| 20-00-10      | 33    |
| 20-03-03      | 34    |
| 20-04-08      | 116   |
| 20-05-10      | 446   |
| 20-10-10      | 598   |
| 20-20-20      | 65    |
| 24-12-18      | 241   |
| 25-03-03      | 161   |
| 25-05-10      | 152   |
| 27-03-03      | 895   |
| 30-00-00      | 143   |
| 30-10-10      | 44    |
| 32-00-00      | 18    |
| 38-00-00      | 76    |
| TOTAL         | 17343 |
| MISCELLANEOUS | 19737 |
| GRAND TOTAL   | 37080 |

Table 4. Tonnage of Fertilizer  
Material and Mixed Fertilizers  
Sold in Connecticut July 1, 1984-  
June 30, 1985

| COMMODITY                    | TONS  |
|------------------------------|-------|
| MULTINUTRIENT                |       |
| Ammoniated phosphate         | 1399  |
| TOTAL                        | 1399  |
| CHEMICAL NITROGEN            |       |
| Ammonium nitrate             | 125   |
| Ammonium sulfate             | 52    |
| Calcium nitrate              | 116   |
| Nitrate of soda              | 6     |
| Nitrogen solutions           | 1788  |
| Other nitrogen materials     | 3     |
| Urea                         | 781   |
| Ureaform                     | 4     |
| TOTAL                        | 2875  |
| PHOSPHATES                   |       |
| Bone meal, raw               | 30    |
| Bone meal, steamed           | 78    |
| Phosphate rock               | 5     |
| Superphosphate 18%           | 1     |
| Superphosphate 20%           | 21    |
| Superphosphate 40%           | 420   |
| Superphosphate 46%           | 264   |
| Other phosphate materials    | 16    |
| TOTAL                        | 835   |
| POTASH                       |       |
| Muriate of potash 60%        | 4031  |
| Potassium carbonate          | 7     |
| Potassium nitrate            | 43    |
| Sulfate of potash            | 6     |
| Sulfate of potash/magnesium  | 105   |
| TOTAL                        | 4192  |
| NATURAL ORGANICS             |       |
| Caster pomace                | 75    |
| Cottonseed meal              | 83    |
| Dried blood                  | 5     |
| Dried manure- cattle         | 3620  |
| Gelatin                      | 8     |
| Greensand                    | 2     |
| Manure, composted            | 1689  |
| Other organics               | 1     |
| TOTAL                        | 5483  |
| SECONDARY AND MICRONUTRIENTS |       |
| Aluminum sulfate             | 2     |
| Borax                        | 1     |
| Copper sulfate               | 17    |
| Land plaster(gypsum)         | 39    |
| Iron                         | 2     |
| Magnesium oxide              | 1     |
| Sulfur                       | 2     |
| Zinc                         | 1     |
| Miscellaneous                | 1     |
| TOTAL                        | 66    |
| TOTAL-COMMODITIES            | 14850 |
| TOTAL-COMMERCIAL FERTILIZERS | 37080 |
| GRAND TOTAL                  | 51930 |







University of  
Connecticut  
Libraries

---



39153026938613

